## Among the Orchards of the Northwest

A Page of Interesting Advice and Information About Fruits, Large and Small.

To determine the proper time to spray is made easier if you make proper observations. The + article tells you how to make it effective and certain.

#### By E. F. STEPHENS.

meth it is a convenience to know so tightly as to prevent the lodgment time would be the tree most likely to ing a tributary to the south fork of definitely the time adult moths of the poisonous spray. This first set crop of fruit in a frosty spring, an the Chehalis River. The streams in emerge from the chrysalides. When calva spray should be with high presthis is known, then the spraying can sure, aiming to force the liquid into the in the handling of young orchards. be done at exactly the right time to be portion of the enlyx cup. Since the most effective. To encourage more cer- eggs of the codling moth have not yet tain methods in fighting the codling been deposited and may not be demoth, by finding out the exact date the posited for some weeks after this sprayadults appear, Prof. T. H. Parks, of ing, the object of this first spray is Idaho, is distributing codling moth to securely lodge this poisonous liquid eages, and in return asks orchardists in the calyx of each apple on the tree. to earefully watch and make note of Careful observers, like Mr. Hurst, the date the first and the last codling note that most of the eggs of the codmoth emerges. Each orchardist can ling moth are deposited on the leaves, make a case for himself.

dow screen wire, and a convenient size apple. This gives an opportunity to for the cage is eight inches in diameter intercept the larvae by the second by twelve or fifteen inches in length spray, which this time should be a In these cages place the larvae of the fine mist, coating the under and upper codling moth, also place leaves or a bit sides of the leaf. of cloth cover for shelter, and, when the moth has actually emerged, it would To determine the best time for the

#### Secure Average Temperature.

the orehards as to give an average to lay eggs and thus determine the time temperature. It is well to throw weeds for the second spray, which should coat over the cage to partially hide it, lest the leaves just in advance of the laying if she will not produce more than four sening the power of the sun. Since ten of the eggs. cents' worth of material will make a On the other hand the time of the cage, it is well to have two or three first spraying is determined by and faster her pigs will grow. of them placed under varied conditions, must be before the ealyx closes. White The writer places three different eages Winter Pearmain blooms earlier than

emerges from an apple in late fall, it ing a period of ten days or more beseeks a place to winter with safety, tween the earliest and latest closing of wintering as larvae or worms. These the ealyx. larvae may winter under a bit of rough If the season is favorable without in the building of the Chebalis gravity bark on the trunk of a tree or in any loss by frost, spray when eight-tenths water system was straightened out when similar stelter. They are usually of the bloom has fallen. If, on the arrangements were completed for runabundant about packing botses. As the other hand, the season has been un- ning the Chehalis pipe across the Cenlarvae seeks shelter, it weaves over favorable, and the early bloom has tralia intake site. itself a thin web. Here it reposes un-been destroyed, and the crop is dependtil springtime.

acter of the season and on the earli- petals. The orchardist, therefore, will bringing the herd up to 51. ness with which its place of conceal-carefully study his own bloom, and will ment may warm up. Depending on the spray with reference to that particular character of the shelter, the date of portion of the bloom which in his case populion may vary fifteen to sixty will set fruit. This varies with days, or more. The next step is for the varieties. larvae to change to the pupue form, called pupating. In cool weather it remains in this form for twenty-one the second brood, about the first of and then emerges as a codling moth.

## Before Calyx Closes.

flies at night and mates. Within about band traps the larvae of the first brood four days of the emergence of the will hide to transform into adults. moth, egg laying commences. Each Place a goodly number of these female moth is reported to deposit from worms in the moth cage, study their one hundred and fifty to two hundred development, and spray for the second days. B. F. Hurst, who has given very eggs. In the Boise basin that would eareful study to the habits of the cod-quite likely be in the neighborhood of ling moth in Idaho, reports that the the first of July. Since the broods overlarvae may feed one to two days on lap, it might be necessary to spray the foliage before entering the apple. again in the early days of August. Some observers report that, of the first Careful observers believe that in the brood or while the apple is yet very Snake River and the Boise Valleys we small, 80 per cent of the larvas may have first and second broads only, but enter the apple through the ealyz. A that these broads overlap and may conspecial effort should be made to de tique their work even in September. posit some form of poison, preferably By studying trees that are old and arsenate of lead, in the calyz before young and pruned in different meth-the calyz closes. This poison lodged ods, it will be found that in your orchwithin the calyx may poison not only ards that are allowed a large amount

e e e e e e e e e e e e e e e e e e pihe larvae of the first, but some of the jof wood more fruit buds will set at the e second brood, since the poison remains age of four, five or six years than orch-\* in position to intercept the larvae when ards pruned for large good growth. If ranging from a half-inch to an inch in ever it does enter.

## Eggs on Leaves.

and that the young larvae may feed a The material used is common win-little on the leaf before seeking the

## Moth Cage Is Aid.

be well to add twigs of apple bloom. second spray is the object of the moth cage, the eareful observation of which Place the cages in such position in ascertains when the moth will be ready

in varying conditions in the orchard. Jonathan or Winesap, Rome Beauty and As the larvae of the codling moth Rawles' Janet later than either, mak-

ent on the later bloom, then do not The next step depends on the char spray until the latest bloom has shed its born in the Wichita national forest,

## Study of Trees.

To determine when to spray against days; in the heated summer a less time, June place burlap bands about the trunks of the older trees, preferably in some old orehard, or in some orchard The 'odling moth, male and female, sadly infested with worms. Under these eggs hatch in eight or ten broad when the moths are ready to lay

a four or five-year-old tree las com- length were planted in the trout streams paratively few fruit buds, it will bloom of Lewis county, Wash, by Game Warspraying must be done at the . A skillful orchardist does not spray within a period of a very few days, but den Norton Wynn and his deputies. right time to be effective. This + until after pollination has taken place if a tree, whether old or young, has an The trout were brought from the state and the major portion of the petals excessive number of fruit buds, then fish hatchery in Seattle and upon arhave fallen. In the Yakima district in that tree will continue to come into rival were divided into three equal lots. a favorable season, the rule is to begin bloom for a period of twelve to four. One bunch was freed in Lincoln Creek, \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* to spray when eight tenths of the petals teen days. In case of an unfavorable the second was turned out on the south have fallen. After the petals fall there spring with frost periods, the tree hav- fork of the Newaukum, while the is usually five to seven days' time in ing the greatest abundance of bloom third was taken to Dunn Creek, be-

N SPRAYING apples for the codling which to suray before the ealyx closes and blooming for the longest period of tween Dryad and Doty, this creek be-

## Points on Pigs

EEDING and care are as important cording to an announcement by George good care may make a good hog out of fair having always previously been a runt out of a good pig.

To make pork cheaply a permanent pasture and forage crops must be used. Young pigs must have a dry bed and plenty of sunshine.

Begin feeding the pig as soon as he will eat, and keep him growing until he

Always keep plenty of clean, fresh water where the hogs may drink any

Quarantine all newly purchased animals for three weeks.

Never keep a female for a brood sow, no matter how well bred she may be, strong pigs at a litter.

The more milk a sow will give the

Lice prevent a hog from doing well. Always keep a mixture of charcoal, wood ashes, lime, sulphur, salt and copperas before the hogs.

## Final Plans For Water System.

What is believed to be the last hitch

Four buffalo calves have just been

22,000 Rainbow Trout Planted

Twenty two thousand rainbow trout, closed to fishing for a term of two years.

### Plan For Fair in Chehalis County.

The Chehalis county fair will be held at Elma, Wash., September 23-27, acas the breeding in producing a Simpson, president of the fair association. This is earlier than usual, the a runt, but lack of it will always make held in October. The premium list will be issued in July.



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